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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial Number: 10/720,039
Application Filed: 11/20/2003
Applicant(s): KREAM, Richard M.
Title: Method of Transporting a Chimeric Hybrid Molecule Across the Blood
Brain Barrier
Group: 1600
Art Unit: 1647
Examiner:

AMENDMENT NO. 1

December 14, 2004

Commissioner of Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Please amend my Patent Application, as follows:

Amendments to the Claims

Claims

Please amend Claim 1 to read:

"1. A method of transporting a pharmacologically active peptide across the blood brain barrier into the central nervous system of a living subject, by administration to said subject of a conjugate molecule comprising said peptide covalently linked to a non-peptide mu (μ) opioid receptor agonist, comprising:
"a. The selection of a non-peptide mu (μ) opioid receptor agonist and a cross-linker, such that when the mu (μ) opioid receptor is modified and covalently linked to the cross-linker and the cross-linker is covalently linked via a peptide bond to the pharmacologically active peptide, the cross-linker will be able to flex such that the mu (μ) opioid opioid receptor agonist and the